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## In the Claims

Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

- 1. (Currently Amended) An isolated nucleic acid molecule selected from the group consisting of:
- (a) a nucleic acid molecule that hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 1 and is at least 2322 nucleotides in length,

wherein the hybridization conditions are 1) hybridization at 65°C in hybridization buffer that consists of 3.5 x SSC, 0.02% Ficoll, 0.02% polyvinyl pyrrolidone, 0.02% Bovine Serum Albumin, 2.5mM NaH<sub>2</sub>PO<sub>4</sub>, pH7, 0.5% SDS, 2mM EDTA, wherein SSC is 0.15M sodium chloride/0.015M sodium citrate, pH7; SDS is sodium dodecyl sulphate; and EDTA is ethylenediaminetetracetic acid and 2) washing in 2 x SSC at room temperature and then in 0.1 x SSC/0.1 x SDS at 68°C,

(b) a nucleic acid molecule that hybridizes to the complement of the nucleotide sequence of SEQ ID NO: 3 and is at least 23 nucleotides in length,

wherein the hybridization conditions are 1) hybridization at 65°C in hybridization buffer that consists of 3.5 x SSC, 0.02% Ficoll, 0.02% polyvinyl pyrrolidone, 0.02% Bovine Serum Albumin, 2.5mM NaH<sub>2</sub>PO<sub>4</sub>, pH7, 0.5% SDS, 2mM EDTA, wherein SSC is 0.15M sodium chloride/0.015M sodium citrate, pH7; SDS is sodium dodecyl sulphate; and EDTA is ethylenediaminetetracetic acid and 2) washing in 2 x SSC at room temperature and then in 0.1 x SSC/0.1 x SDS at 68°C,

- (c) nucleic acid molecules that differ from the nucleic acid molecules of (a) or (b) in codon sequence due to the degeneracy of the genetic code, and
  - (d) complements of (a), (b) or (c).
- 2. (Original) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule comprises the nucleotide sequence set forth as SEQ ID NO: 1.

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3. (Previously Presented) The isolated nucleic acid molecule of claim 1, wherein the isolated nucleic acid molecule consists of the nucleotide sequence set forth as SEQ ID NO: 3.

- 4. (Currently Amended) An isolated nucleic acid molecule selected from the group consisting of
- (a) fragments of a nucleotide sequence set forth as SEQ ID NO: 1 that are at least <u>2322</u> nucleotides in length,
- (b) fragments of a nucleotide sequence set forth as SEQ ID NO: 3 that are at least 23 nucleotides in length, and
  - (c) complements of (a) or (b).
  - 5.-7. (Canceled)
- 8. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 1, operably linked to a promoter.
- 9. (Original) An expression vector comprising the isolated nucleic acid molecule of claim 4 operably linked to a promoter.
- 10. (Previously Presented) An isolated host cell transformed or transfected with the expression vector of claim 8.
- 11. (Previously Presented) An isolated host cell transformed or transfected with the expression vector of claim 9.
  - 12.-67. (Canceled)
  - 68. (Previously Presented) A composition, comprising: an agent comprising the isolated nucleic acid molecule of claim 1, and a carrier.

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69.-79. (Canceled)

80. (Previously Presented) The isolated nucleic acid molecule of claim 4, wherein the fragment of (a) has a size selected from the group consisting of at least: 24 nucleotides, 26 nucleotides, 28 nucleotides, 30 nucleotides, 50 nucleotides, 75 nucleotides, 100 nucleotides and 200 nucleotides.

- 81. (Previously Presented) The isolated nucleic acid molecule of claim 4, wherein the molecule encodes a polypeptide which is immunogenic.
- 82. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 2 operably linked to a promoter.
- 83. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 3 operably linked to a promoter.

84.-85. (Canceled)

- 86. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 80 operably linked to a promoter.
- 87. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 81 operably linked to a promoter.
  - 88. (Previously Presented) A composition, comprising: an agent comprising the isolated nucleic acid molecule of claim 4, and a carrier.
- 89. (Previously Presented) The isolated nucleic acid molecule of claim 4, wherein the fragment of (b) has a size selected from the group consisting of at least: 24 nucleotides, 26

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nucleotides, 28 nucleotides, 30 nucleotides, 50 nucleotides, 75 nucleotides, 100 nucleotides and 200 nucleotides.

90. (Previously Presented) An expression vector comprising the isolated nucleic acid molecule of claim 89 operably linked to a promoter.